



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,336	10/30/2001	Bernhard Lettmann	IN-5530/BC1-0047	2515
77224	7590	12/07/2009	EXAMINER	
Mary E. Golota Cantor Colburn LLP 201 W. Big Beaver Road Suite 1101 Troy, MI 48084			NUTTER, NATHAN M	
			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			12/07/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

MARJORIE.ELLIS@BASF.COM
Mgolota@CantorColburn.com
usptopatmail@cantorcolburn.com

Office Action Summary	Application No. 10/018,336	Applicant(s) LETTMANN, BERNHARD	
	Examiner Nathan M. Nutter	Art Unit 1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 August 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 are now pending.

Response to Amendment

In response to the amendment filed 17 February 2009, the following is placed in effect.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

MPEP §§ 2163.06 and 714.02 state that, when Applicant presents an amendment to the claims, "Applicant should specifically point out the support for any amendments made to the disclosure." Examiner has re-read the Specification, and it is unclear what elements therein correspond to the claimed percents by weight of the constituents (a21), (a22) and (a23) since the Specification does not utilize these parameters for polymer (A1) which differs in scope with polymer (AII) to which reference

Art Unit: 1796

is made at page 71 (line 5) to page 72 (line 18). It is clear, and applicant has argued, the two components are different. As such, the amendment is improper.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reusmann et al (US 6,403,701) taken in combination with Brock et al (US 5,672,649)

The instant invention is drawn to a process for preparing an aqueous coating material having desirable shade and optical effects, wherein said process comprises mixing of at least three components termed modules comprising: module (I) containing less than 5% by weight water, at least one binder, at least one pigment, and at least one organic solvent to form a base color (A1); module (II) comprising at least one aqueous color module comprising at least one water-soluble or -dispersible binder, at least one color pigment and water to form at least one aqueous color-imparting base color (A2); and module (III) comprising at least one pigment-free mixing varnish module (B) comprising at least one aqueous, pigment-free varnish comprising water-soluble or -dispersible binder and water; and optionally at least one rheology control additive (C).

Art Unit: 1796

Modules (I), (II) and (III) are stored separately and may be mixed before using. The nature of the binder(s) is not critical.

The reference to Reusmann et al teaches a mixing system for producing water-dilutable coatings which may have “precisely defined tinting from various base colors” and “with effect finishes” and “special-effect pigments.” Note column 1 (lines 5-30). Reusmann et al teach the steps of: preparing a plurality of base colors; separately storing each of said base colors, and mixing, shortly before application of the coating composition. Note the Abstract, column 2 (line 61) to column 3 (lines 1 et seq.). The water-dilutable coating compositions may comprise a plurality of base colors (A) and at least one pigment-free component (B). The reference teaches the employment of at least one rheology-controlling additive. Note column 1 (lines 63-67). The base colors (A) comprise less than 5% by weight of water, at least one pigment, an organic solvent, and at least one water-dilutable first binder. The component (B) comprises a pigment-free aqueous dispersion of polyurethane resin (second binder). Note claim 1. The component (A) is readable on the claimed (A-1) base color in the claimed module (I). The component (B) is readable on the claimed aqueous, pigment-free varnish module (III). The first binder (A) and the second binder in the component (B) can be the same binder. Note column 13 (lines 23-29) column 4 (lines 49-59) and column 9 (lines 7-16). The polyurethane resins can be prepared from an isocyanate-functional prepolymer at the paragraph bridging column 5 to column 6, and “the groups of component (c) which are capable of forming anions are neutralized.” Note column 7 (lines 14 et seq.). The water-dispersible polyurethane binder composition may contain polyacrylate, polyester

Art Unit: 1796

and amino resins. Note column 11 (lines 18-26). The reference teaches the addition of a rheology-controlling agent, which embraces the optionally claimed component (C) at column 11 (lines 1-17). Suitable groups capable of forming anions include carboxyl groups. Note column 7 (lines 55-60). The coating composition is taught to comprise a plurality of base colors (A). The base colors (A) comprise a combination of at least one organic coloring pigment and at least one inorganic coloring pigment. Note column 12 (lines 56-59) and column 3 (lines 7-35). Suitable special-effect pigments can also be present at column 3 (lines 18-28). The solvents are water-soluble or water-thinnable solvents including alcohols. Note column 4 (lines 60-65). The reference discloses a process for preparing components (A) and (B), and directly after their preparation by mixing the component (A) and (B), the coating compositions may be applied to the substrate by spraying. Note column 13 (lines 43-56). The base colors compositions (A) can be mixed with a suitable amount of the aqueous component (B). Reusmann et al discloses a formulation of a water-dilutable coating composition, which can be diluted with water, with or without prior partial removal of the organic solvent employed in the preparing resin. Note column 11 (line 18) to column 12 (line 7) and column 13 (lines 7-17). The coating composition of Reusmann et al can include a plurality various of base colors (A), wherein "coloring pigments usually takes place by dispersing the respective pigments with one or more of the above-described binders." Note column 5 (lines 28-32).

The reference to Reusmann et al does not show the component (A2) as a separate module of an aqueous color module comprising pigment, binder and water.

Art Unit: 1796

The reference does not show three modules as the mixing system. The reference does disclose a mixing system that may comprise many modules as used for coating compositions using a plurality of base colors (A) separately storing each of said base colors. Note column 15 (lines 48-67), column 16 (lines 1-10 and 65-67) and claim 1. Also, the reference shows the use of a component (A) that may contain from 20 to 80% by weight of at least one water-thinnable or water-dispersible binder. Note the paragraph column 12 (lines 22 et seq.).

The reference to Brock et al teaches the production and use of an aqueous coating system using modules. The Abstract teaches the employment of an aqueous module that comprises the system noted in the instant claims as (A2). Further, note column 2 (lines 49 et seq.) and column 3 (lines 5-19 and 24-64). The use of anionic binders are taught at column 4 9lines 29-32). At the paragraph bridging column 6 to column 7, the reference teaches the employment of a lacquer system (herein, III). Further, note column 7 (lines 34-67). The reference clearly shows the modules designated as (A2) and (IV), since at column 3 (lines 56-61) the reference teaches the use of "a rheology module."

Both references are drawn to aqueous coating mixer systems comprising modules. Since both are aqueous systems, the modules may be used from one in the other with a great expectation of success by the artisan having an ordinary skill in the art. Since the reference to Reusmann et al shows the modules for use, although the rheology module is not separate, but as an additive in other modules, as herein claimed, the use of a rheology module, as taught by Brock et al would have been a prima facie

Art Unit: 1796

obvious step. Likewise, the use of the modular system (A2) as taught by Brock et al, in the mixer system of Reusmann et al would have been an obvious step. The references are drawn to identical systems that employ some differing modules. Both systems are aqueous-based systems. As such, inclusion of the modules taught by Brock et al for the many modules disclosed by Reusmann et al would have been a prima facie obvious modification. Nothing unexpected has been shown on the record.

Response to Arguments

Applicant's arguments filed 31 august 2009 have been fully considered but they are not persuasive.

With regard to the rejection of claims 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, it is pointed out to applicant that the Specification for (a23) the recitation of when "(a22) (is) from 1 to 30% by weight of at least one organic color pigment," refers to (A1), and not to (A2) as applicant insists in the Response on page 14/23. Further, that parameter for inclusion of (a23) as "at least 20 % by weight water when" (a22) includes "1 to 30% by weight of at least one organic color pigment<" is not shown at pages 75 and 76, as applicants contend" Further, there is no disclosure for (A1) of constituent (a13) being 89.5% (sic, without "by weight") in claim 42.

With regard to the rejection of claims 3, 18, 19, 21, 22, 25, 26, 28 and 42-56 rejected under 35 U.S.C. 103(a) as being unpatentable over Reusmann et al (US 6,403,701) taken in combination with Brock et al (US 5,672,649), applicant's response

Art Unit: 1796

confuses the response, mixing comments about the separate references. The Examiner will make an attempt to respond to applicant's arguments. Future correspondence must refer to the references in the rejection, as set out, and not in a conjoined fashion.

The reference to Brock et al clearly embraces the instantly claimed range for A2 of "10 to 89% by weight." Note the Abstract. Brock et al is relied upon to show the (A2)

The references both show the conventionality of the several elements, employed in identical capacities.

Applicant asserts the "Component (A) referred to in the quote (evidently to Mayer DE 41 10 520 A1, which is NOT a basis for the rejection, as argued) corresponds to component (A1) of the claims." This is not so, as pointed out in the rejection. Applicant's arguments are not properly placed. The reference to Brock et al was relied upon to show the component (A2) as conventional. Applicant's conjectures are in apposition to what the Examiner has written.

The use of known elements, as disclosed, employed in known fashion, as disclosed, would be obvious, since the skilled artisan would have a high level of expectation of success to achieve the instantly claimed invention following the teachings of the references. Applicant's references to the document to Mayer are summarily dismissed since that reference was not a part of the rejection, as stated.

Applicant argues the pigments of Reusmann et al would settle out, but provides no evidence or data to support such contention. Applicant appears to rely at the citation of column 1 (lines 57-65) on prior art and not on the reference teachings as pointed out in the rejection.

The reference to Brock et al is relied upon for the reasons stated in the rejection. The instant claims require the same compositional limitations for the components as the references disclose, as pointed out. Since the components are shown to be known and conventional, the skilled artisan would enjoy success to achieve the instantly claimed invention following the teachings of the references, as pointed out in the rejection.

As to applicant's assertion "(t)he PTO has failed to establish any reason why the rheology control additive should be present as a separate module instead of combined with one of the other modules." The reference to Reusmann et al shows the rheology control additive at claims 1 and 5 of the reference. The requirement is only a binder, water and the control agent. The instant claims require an aqueous medium with the rheology control additive (instant claims 3, 18, 19, 21, 22, 25, 26, 28, 54, 55 and 56), and this component is optional in the claims listed. Further, the claims recite "comprising," which fails to limit the claims to the specified constituents. The patent to Brock et al clearly shows the separate module, as pointed out in the rejection. Reusmann et al show a range of "from 0 to 10% by weight," at column 12 (lines 64-67). The limitations of claims 42 and 53 are easily envisaged. The rheology control additives of claim 56 are shown by Reusmann et al at column 11 (lines 1-17). Again, to use as a separate module would be obvious to an artisan, especially in view of Brock et al. Applicant's claims do not exclude other constituents in the module. Applicant has failed to show any difference. The binders of claim 54, being the same, are shown, as pointed out, by Reusmann et al at column 13 (lines 23-29). Applicant has failed to demonstrate

Art Unit: 1796

or show any unexpected or surprising results in view of the teachings of the references, for the reasons stated.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nathan M. Nutter/
Primary Examiner, Art Unit 1796

nmn

1 December 2009